

ABSTRACT

The present invention makes it possible to acquire image information required for displaying a three-dimensional image of an object in a space with a simple configuration and to achieve display of a stereoscopic dynamic image in a true sense with a simple configuration.

Light from an object (10) impinges upon a deflecting plate (11). Among the incident beams of light, the deflecting plate (11) allows beams of light at a predetermined angle to the plane of the deflecting plate (11) to pass, the beams exiting as parallel beams of light perpendicular to the plane of the deflecting plate (11). The light passes through a converging lens (12), a pinhole member (13), and a converging lens (14) to impinge upon a CCD (15). An angle of incident light selected by the deflecting plate (11) is sequentially changed as time passes. Therefore, image information output by the CCD (15) becomes plural pieces of two-dimensional image information for which the photographing direction changes as time passes and which serve as image information required for displaying a three-dimensional image of the object in a space.